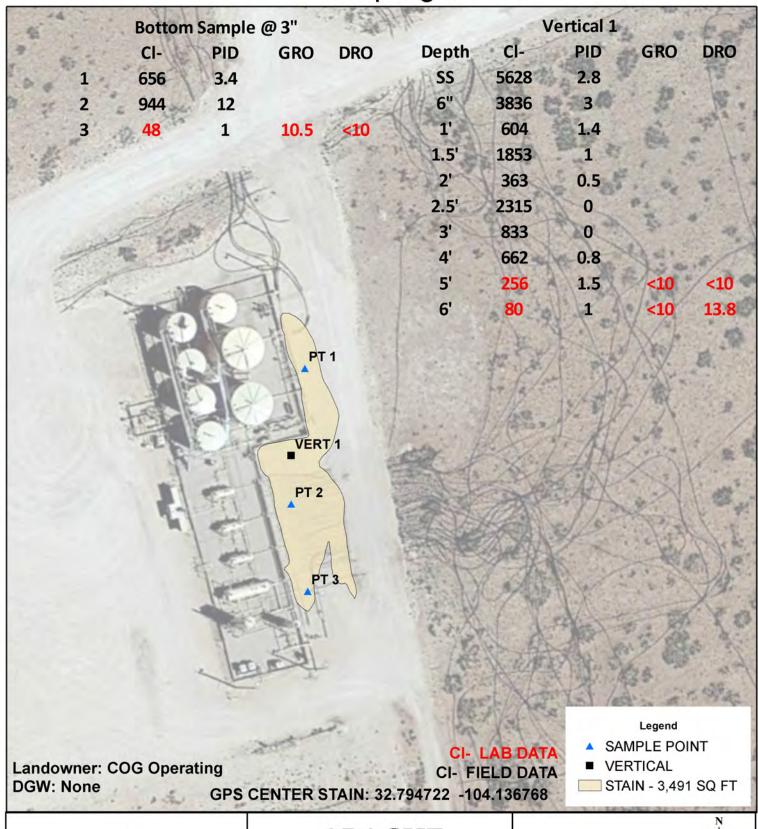
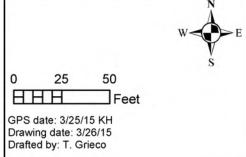
# **Initial Sampling Data**





# APACHE D STATE #49

UL E SECTION 36 T-17-S R-28-E EDDY COUNTY, NM





April 27, 2015

BRUCE BAKER

APACHE CORP - HOBBS

2350 W. MARLAND BLVD.

HOBBS, NM 88240

RE: D STATE #49 BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 04/23/15 8:30.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-13-5. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at <a href="https://www.tceq.texas.gov/field/ga/lab">www.tceq.texas.gov/field/ga/lab</a> accred certif.html.

Cardinal Laboratories is accreditated through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2 Haloacetic Acids (HAA-5)
Method EPA 524.2 Total Trihalomethanes (TTHM)
Method EPA 524.4 Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

Celey D. Keine

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



#### Analytical Results For:

APACHE CORP - HOBBS BRUCE BAKER 2350 W. MARLAND BLVD. HOBBS NM, 88240

Fax To: (575) 393-2432

Received: 04/23/2015 Sampling Date: 04/22/2015

Reported: 04/27/2015 Sampling Type: Soil

Project Name: D STATE #49 BATTERY Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Jodi Henson

Project Location: NOT GIVEN

#### Sample ID: PT 3 @ 3" (H501048-01)

Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AP							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier		
Chloride	48.0	16.0	04/23/2015	ND	432	108	400	7.69			
TPH 8015M	mg	/kg	Analyze	d By: MS							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier		
GRO C6-C10	10.5	10.0	04/23/2015	ND	208	104	200	0.0576			

Surrogate: 1-Chlorooctane 106 % 47.2-157
Surrogate: 1-Chlorooctadecane 100 % 52.1-176

#### Sample ID: VERITCAL 1 @ 5' (H501048-02)

Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	256	16.0	04/23/2015	ND	432	108	400	7.69	
TPH 8015M	mg	/kg	Analyze	d By: MS				7.69  RPD Qualifier 0.0576	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	04/23/2015	ND	208	104	200	0.0576	
		10.0	04/23/2015	ND	222	111	200	1.11	

Surrogate: 1-Chlorooctane 106 % 47.2-157
Surrogate: 1-Chlorooctadecane 104 % 52.1-176

Cardinal Laboratories \*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results related only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celeg D. Freene



#### Analytical Results For:

APACHE CORP - HOBBS BRUCE BAKER 2350 W. MARLAND BLVD. HOBBS NM, 88240 Fax To: (575) 393-2432

Received: 04/23/2015 Sampling Date: 04/22/2015

Reported: 04/27/2015 Sampling Type: Soil

Project Name: D STATE #49 BATTERY Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Jodi Henson

Project Location: NOT GIVEN

#### Sample ID: VERTICAL 1 @ 6' (H501048-03)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	04/23/2015	ND	416	104	400	3.77	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	04/23/2015	ND	208	104	200	0.0576	
DRO >C10-C28	13.8	10.0	04/23/2015	ND	222	111	200	1.11	
Surrogate: 1-Chlorooctane	107	% 47.2-15	7						

Surrogate: 1-Chlorooctane 10/% 4/.2-13/
Surrogate: 1-Chlorooctadecane 100 % 52.1-176

Cardinal Laboratories \*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results related only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keine



#### **Notes and Definitions**

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

\*\* Samples not received at proper temperature of 6°C or below.

\*\*\* Insufficient time to reach temperature.

- Chloride by SM4500Cl-B does not require samples be received at or below 6°C

Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories \*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results related only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celeg D. Freene

## ARDINAL LABORATORIES

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240 2111 Beechwood, Abilene, TX 79603 (505) 393-2326 FAX (505) 393-2476 (325) 673-7001 FAX (325)673-7020

Company Name	111-600								BILL TO ANALYSIS REQUEST													
Project Manage							F	P.O. #:											T			
Address:							C	Company:								S		1 1		- 1		
City: Hobbs	State: NM	State: NM Zip: 88240						ttn:									nc					
Phone #:	Fax #:						A	Address:		Address:								Cations/Anions				
Project #:	Project Owner	:					C	City:					1	Σ		-	S/A					
Project Name:						s	tate			Zip:		es	2	~	TPH	JU.	1					
Project Location: D State #49 Battery					P	Phone #:				Chlorides	801	BTEX	-	atic	TDS							
Sampler Name:					F	ax#	:				1은		3	Texas	S	岸						
FOR LAB USE ONLY				-	MAT	RIX	PRESERV. SAMPLIN				NG	ठ	TPH	_	· G	e						
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	GROUNDWATER	SOIL	OIL	SLUDGE	ACID/BASE:	ICE / COOL	OTHER:	DATE	TIME					Complete					
1	P+ 3 @ 3 Inches	6	1		1				1		4-225	10:00	1	/								
3	Vert 1@ 5 Pt,	6	)		/				1/	-	4.2215	010	/	1								
3	Vart 1@ 6 ft.	6	1		1	-	+	+	1		4-22-15	3:25	-	/								
	d Damages. Cardinal's liability and client's exclusive remedy for a	_	_					-														

PLEASE NOTE: Usability and Diamages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims including those for negligence and any other cause whatesover shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequented demages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services harmunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.

Relinquished By:	Date: 23/15 Received	di Henson	Phone Result: ☐ Yes ☑ No Add'l Phone #:  Fax Result: ☐ Yes ☑ No Add'l Fax #:  REMARKS:								
Relinquished By:	Date: Receive	ed By:	email: hconder@riceswd.com; lflores@rice-ecs.com; lweinheimer@rice-ecs.com; knorman@rice-ecs.com; jkamplain@rice-ecs.com; sedwards@rice-ecs.com;								
Delivered By: (Circle One) Sampler - UPS - Bus - Other:	-2.D°	Sample Condition Cool Intact Initials) No No No	cursanic@ Environme	rice-ec	s.com		@rice-ecs.com				

† Cardinal cannot accept verbal changes, Please fax written changes to 505-393 2476

# Apache D State 49 Unit Letter E, Section 36, T17S, R28E



Initial release area, facing southwest

3/25/15



Initial release area, facing north

3/25/15



Initial release area, facing west

3/25/15



Shoveling release area, facing west

4/22/15

District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

#### NM OIL CONSERVATION State of New Mexico

**Energy Minerals and Natural Resources** 

ARTESIA DISTRICT

Form C-141 Revised August 8, 2011

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505

MAR 27 2015 to appropriate District Office in accordance with 19.15.29 NMAC.

RECEIVED

Release Notification and Corrective Action														
NAB	15090	38014			OPERATOR   Initial Report   Final Report									
Name of Co			Contact Brice Baker											
Address: 23 Facility Nan			iobbs, Ni	M 88240		Telephone No. (432) 631-6982 Facility Type: Battery								
Surface Owi		· · · · · · · · · · · · · · · · · · ·		Mineral Ov			<u> </u>		ADI No	. 30-015-3	9/13			
Surface Owi	ilei COG								APINO	. 30-013-3	3413			
Unit Letter	Section	Township	Range			OF REI	LEASE Feet from the	RoctA	Vest Line	County				
E E	36 17S 28E 1730' FNL						330,	FWL	West Line	Eddy				
											<del></del>			
Latitude <u>N32.794722</u> Longitude <u>W104.136778</u>														
NATURE OF RELEASE														
Type of Relea	ise: produc	ed water				Volume of water	Release 35 barre	ls of	Volume R	Recovered 3	0 barre	ls of water		
Source of Rel	ease: chec	k valve				Date and H	our of Occurrenc	e		Hour of Dis	covery			
Was Immedia	te Notice (	liven?				3/24/2015 If YES, To	Whom?		3/24/2015	·				
Wils Illinioun			Yes [	No 🔲 Not Rec	juired	Mike Brate								
By Whom?	Bruce Bake	r					our 3/25/2015							
Was a Watero	ourse Reac	hed?	Yes 🗵	No		If YES, Vo	lume Impacting t	he Wate	ercourse.					
If a Watercou	rse was lm	nacted. Descri				<u> </u>		······································						
		,,												
Describe Caus	an a Charlet	l D	Nal A ata	Train w										
				i Taken.* heck valve on disc	harge v	vater pump.	The transfer pump	o was sl	nut down ar	nd check val	ve repl	aced.		
Vacuum truck														
Describe Area	Affected s	and Cleanun A	ction Tak	en *										
				l. The area was ma	apped a	nd initial fiel	d samples collecte	ed.						
I hereby certif	fy that the in	nformation gi	ven above	is true and comple	te to th	e best of my	knowledge and m	nderstar	nd that purs	uant to NM	OCD n	iles and		
regulations all	l operators	are required to	report an	d/or file certain rel	lease no	tifications ar	nd perform correct	live act	ions for rele	eases which	may en	danger		
				c of a C-141 report investigate and rep										
or the environ federal, state,				tance of a C-141 re	eport do	es not relieve	e the operator of r	esponsi	bility for co	ompliance w	ith any	other		
reactur, state,	or total last	va anazor rega	idilolis.			<u> </u>	OIL CONS	SERV	ATION	DIVISIO	N			
Signature:	Bauce	e Back	4				<u> </u>		1.7	1				
						Approved by	Environmental Sp	ecialist	:: []					
Printed Name:	: Bruce Ba	ker			_				1.10	F 2	$\widehat{\mathbb{R}}$			
Title: Enviror	mental Tec	chnician				Approval Dat	o: 3/31/19	2 1	Expiration I	Date: N	$\underline{H}$			
E-mail Addres	ss: farry.ba	ker@apachec	orp.com			Conditions of	Approval;			<b>  ,</b>				
				. (420) (21 (022	Ren	nediation	per O.C.D. R	ules (	& Guidel	ines	Ш			
Date: 3/27/20 Attach Additi		ts If Necessa		: (432) 631-6982	SU	BMII HEN	<del>IEDWY DW K</del>	BOPO	DSAL NO	<u> </u>		1001		
			•		LAI	er than	1:			di	SP.	9494		

District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

### State of New Mexico Energy Minerals and Natural Resources

Submit 1 Copy to appropriate District Office in accordance with 19.15.29 NMAC.

Form C-141

Revised August 8, 2011

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe. NM 87505

			36	шиа г	e, NM 875	05						
		Rele	ease Notific	cation	n and Co	rrective A	ction					
					<b>OPERA</b>	ΓOR	☐ Initia	al Report	$\boxtimes$	Final Report		
mpany	Apache Cor	poration			Contact B	ruce Baker						
			NM 88240				6982					
		,,				\ /						
	,				, ,,	<u> </u>						
ner COG	-		Mineral C	)wner	State		API No	. 30-015-	38413			
						LEASE						
Section	Township	Range	Feet from the	North	/South Line	Feet from the	East/West Line	County				
36	17E	28E	1730'		FNL	330'	FWL	Eddv				
		L	_	_	_	_	<u>.                                    </u>					
			NAT	'URE								
ase produc	ced water					Release 35 barr	els of Volume F	Recovered :	30 barr	els of water		
lease chec	k valve				Date and H 3/24/2015	Iour of Occurrence	e Date and	Hour of Dis	covery	3/24/2015		
ate Notice (		Yes [	] No □ Not Ro	equired	If YES, To Whom? d Mike Bratcher							
Bruce Bake	er				Date and F	Iour 3/25/2015						
							he Watercourse.					
					,							
ırse was Im	pacted, Descr	ibe Fully.	*		•							
				scharge	water pump.	The transfer pum	p was shut down a	nd check val	ve was	replaced.		
A CC 4 1	1.01	4 .: TE 1	* TT 1		1.2.401	C + C1	1 4 1 1 1 1	1 1 1	1 1	. 2: 1		
e the highly	wet material	On Marc	ch 25 <sup>th</sup> , 2015, RE0	CS perso	onnel were on	site to sample thr	ree points at the sur	face of the r	elease.	Of the three		
				Given	the number of	lines and facility	apparatus going th	rough the re	elease a	rea, Apache		
			numee of a C-141	report	ioes not renev	e the operator or	csponsionity for c	omphanee v	ritii airy	other		
1						OIL CON	SERVATION	DIVISIO	N			
Kny	ce la		-			OIL COIN	<u>OLICY III IOI (</u>	DIVIDIO	711			
170.			7									
e: Bruce Ba	aker				Approved by	Environmental S	pecialist:					
onmental T	echnician		_/		Approval Dat	e:	Expiration	Date:				
ess: larry.ba	aker@apacheo	corp.com			Conditions of Approval:				Attached $\square$			
	Section  36  Section  37  Section  38  Secti	Section Township  ase produced water  lease check valve  ate Notice Given?  Bruce Baker course Reached?  Itrse was Impacted, Describes of Problem and Reme ug blew out of the side of ks were dispatched to pic  a Affected and Cleanup ate the highly wet material.  It a showed field concent ing of 48 mg/kg. To fully were field tested for chlor es of 256 mg/kg at 5 ft bg the release during facility fy that the information gill operators are required t or the environment. The operations have failed to a ment. In addition, NMC or local laws and/or regulate.  Bruce Baker  commental Technician	Apache Corporation 2350 W. Marland Blvd, Hobbs, me D State 49 Battery  ner COG    Section   Township   Range     36   17E   28E     Lase produced water     lease check valve     ate Notice Given?   Yes     Bruce Baker     course Reached?   Yes     arse was Impacted, Describe Fully.     ase of Problem and Remedial Action     ug blew out of the side of a 2 inche     ks were dispatched to pick up fluid     a Affected and Cleanup Action Tale     e the highly wet material. On March     a Showed field concentrations be     ing of 48 mg/kg. To fully delineate     were field tested for chlorides and of     es of 256 mg/kg at 5 ft bgs and 80 me     the release during facility abandonr     fy that the information given above     loperators are required to report an or the environment. The acceptance of the properations have failed to adequately nament. In addition, NMOCD acceptor local laws and/or regulations.     Bruce Baker	Apache Corporation  2350 W. Marland Blvd, Hobbs, NM 88240  me D State 49 Battery  ner COG    Mineral Composition	mpany Apache Corporation 2350 W. Marland Blvd, Hobbs, NM 88240 me D State 49 Battery    Description   Description	OPERATOR OPE	OPERATOR  Operation   Contact Bruce Baker   Contact Bruce Bruce Bruce Bruce Bruce Baker   Contact Bruce Bruc	Impany   Apache Corporation   Contact   Bruce Baker	OPERATOR	OPERATOR   Initial Report   Description   Contact Bruce Baker   Distate 49 Battery   Facility Type   Facility Type   Battery   Facility Type   Facility		

5/15/15

Phone: (432) 631-6982

<sup>\*</sup> Attach Additional Sheets If Necessary